

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

What is claimed is:

1. (Original) An implantable medical device for the treatment of cancer comprising:
 - a hermetically sealed device housing;
 - a battery contained within said hermetically sealed device housing;
 - circuitry contained within said hermetically sealed device housing wherein said circuitry is coupled to said battery; and
 - at least one electrode operably coupled to said circuitry wherein said circuitry delivers direct current electrical therapy to said at least one electrode continuously for a period of time not less than 1 minute for the treatment of cancerous tumors.
2. (Original) The device of claim 1 wherein said direct current electrical therapy involves the use of multiple voltages.
3. (Original) The device of claim 1 wherein said direct current electrical therapy is applied at a voltage for a time period of between 1 minute and 1 day.

4. (Original) The device of claim 1 wherein said direct current electrical therapy is applied at a voltage for a time period of between 1 hour and 1 week.

5. (Original) The device of claim 1 wherein said direct current electrical therapy is applied at a voltage for a time period of between 1 and 120 minutes.

6. (Original) The device of claim 1 wherein said device monitors at least one voltage from within tissue.

7. (Original) The device of claim 6 wherein said direct current electrical therapy is adjusted according to the sensed tissue voltage.

8. (Original) The device of claim 7 wherein said direct current electrical therapy is applied for a time period between 1 hour and 1 month.

9. (Original) The device of claim 1 wherein said direct current electrical therapy alternates between positive and negative voltages.

10. (Original) The device of claim 1 further comprising an electrical port contact coupled to said device in order to receive externally generated electrical therapies.

Claims 11 through 16 (canceled)

17. (Original) An implantable medical device for the treatment of cancer comprising:
a device housing;

a battery contained within said device housing;
circuitry contained within said device housing wherein
said circuitry is coupled to said battery; and

at least one electrode operably coupled to said
circuitry wherein said circuitry delivers direct current
electrical therapy to said at least one electrode continuously
for a period of time not less than 1 minute for the treatment of
cancerous tumors.

18. (Original) The device of claim 17 wherein said direct
current electrical therapy involves the use of multiple voltages.

19. (Original) The device of claim 17 wherein said direct
current electrical therapy is applied at a voltage between 1 volt
and 20 volts.

20. (Original) The device of claim 17 wherein said direct
current electrical therapy is applied at a voltage for a time
period of between 1 minute and 1 day.

21. (Original) The device of claim 17 wherein said direct
current electrical therapy is applied at voltages and time
periods sufficient for changing the pH by at least 2.0 inside
said tumor.

22. (Original) The device of claim 17 wherein said direct
current electrical therapy is applied at a voltage between 20mV
and 500mV.

23. (Original) The device of claim 17 wherein said direct
current electrical therapy is applied at a voltage for a time
period of between 1 hour and 1 week.

24. (Original) The device of claim 17 wherein said direct current electrical therapy is applied at voltages and time periods sufficient to attract white blood cells.

25. (Original) The device of claim 17 wherein said direct current electrical therapy is applied at a voltage between 100mV and 10 volts.

26. (Original) The device of claim 17 wherein said direct current electrical therapy is applied at a voltage for a time period of between 1 and 120 minutes.

27. (Original) The device of claim 17 wherein said direct current electrical therapy is applied as a series of voltage pulses between 20 and 900 volts.

28. (Original) The device of claim 17 wherein said direct current electrical therapy is applied as a series of voltage pulses wherein said voltage pulses have a pulse width of between 100 μ s and 20 ms.

29. (Original) The device of claim 17 wherein said direct current electrical therapy is applied as a series of voltage pulses wherein said voltage pulses have a spacing period of between 100 μ s and 1 second.

30. (Original) The device of claim 29 wherein said voltage pulses number between 1 and 10,000.

31. (Original) The device of claim 17 wherein said direct current electrical therapy is applied at voltages and pulse widths sufficient to force open tumor cell membranes.

32. (Original) The device of claim 17 wherein said device monitors at least one voltage from within tissue.

33. (Original) The device of claim 32 wherein said direct current electrical therapy is adjusted according to the sensed tissue voltage.

34. (Original) The device of claim 33 wherein said direct current electrical therapy is applied at voltages between 20mV and 500mV.

35. (Original) The device of claim 34 wherein said direct current electrical therapy is applied for a time period between 1 hour and 1 month.

36. (Original) The device of claim 17 wherein said direct current electrical therapy alternates between positive and negative voltages.

37. (Original) The device of claim 17 further comprising an electrical port contact coupled to said device in order to receive externally generated electrical therapies.

38. (Original) The device of claim 17 further comprising any of the group consisting of a drug reservoir, a drug pump, a communication means to synchronize said direct current electrical therapy with a drug delivery system, and circuitry to alternate

10/972,256

Reply to Office Action of December 19, 2006

Page 7

output polarities to reduce levels of electrode corrosion and degradation.